

The Australian Journal of Mathematical Analysis and Applications

AJMAA



Volume 13, Issue 1, Article 9, pp. 1-10, 2016

THE BOUNDEDNESS OF BESSEL-RIESZ OPERATORS ON GENERALIZED MORREY SPACES

MOCHAMMAD IDRIS, HENDRA GUNAWAN AND ERIDANI

Received 23 May, 2016; accepted 22 June, 2016; published 4 July 2016, 2016.

DEPARTMENT OF MATHEMATICS, BANDUNG INSTITUTE OF TECHNOLOGY, BANDUNG 40132, INDONESIA. mochidris@students.itb.ac.id

DEPARTMENT OF MATHEMATICS, BANDUNG INSTITUTE OF TECHNOLOGY, BANDUNG 40132, INDONESIA. hgunawan@math.itb.ac.id URL: http://personal.fmipa.itb.ac.id/hgunawan/

DEPARTMENT OF MATHEMATICS, AIRLANGGA UNIVERSITY, SURABAYA 60115, INDONESIA. eridani.dinadewi@gmail.com

ABSTRACT. In this paper, we prove the boundedness of Bessel-Riesz operators on generalized Morrey spaces. The proof uses the usual dyadic decomposition, a Hedberg-type inequality for the operators, and the boundedness of Hardy-Littlewood maximal operator. Our results reveal that the norm of the operators is dominated by the norm of the kernels.

Key words and phrases: Bessel-Riesz operators, Hardy-Littlewood maximal operator, generalized Morrey spaces, Boundedness, Kernels.

2000 Mathematics Subject Classification. Primary 42B20; Secondary 26A33, 42B25, 26D10, 47G10.

ISSN (electronic): 1449-5910

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The first and second authors are supported by ITB Research & Innovation Program 2015.